

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P594204

Luminaire Tested: **ISC-PA1D-727-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1D-727-U-T3-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5403 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

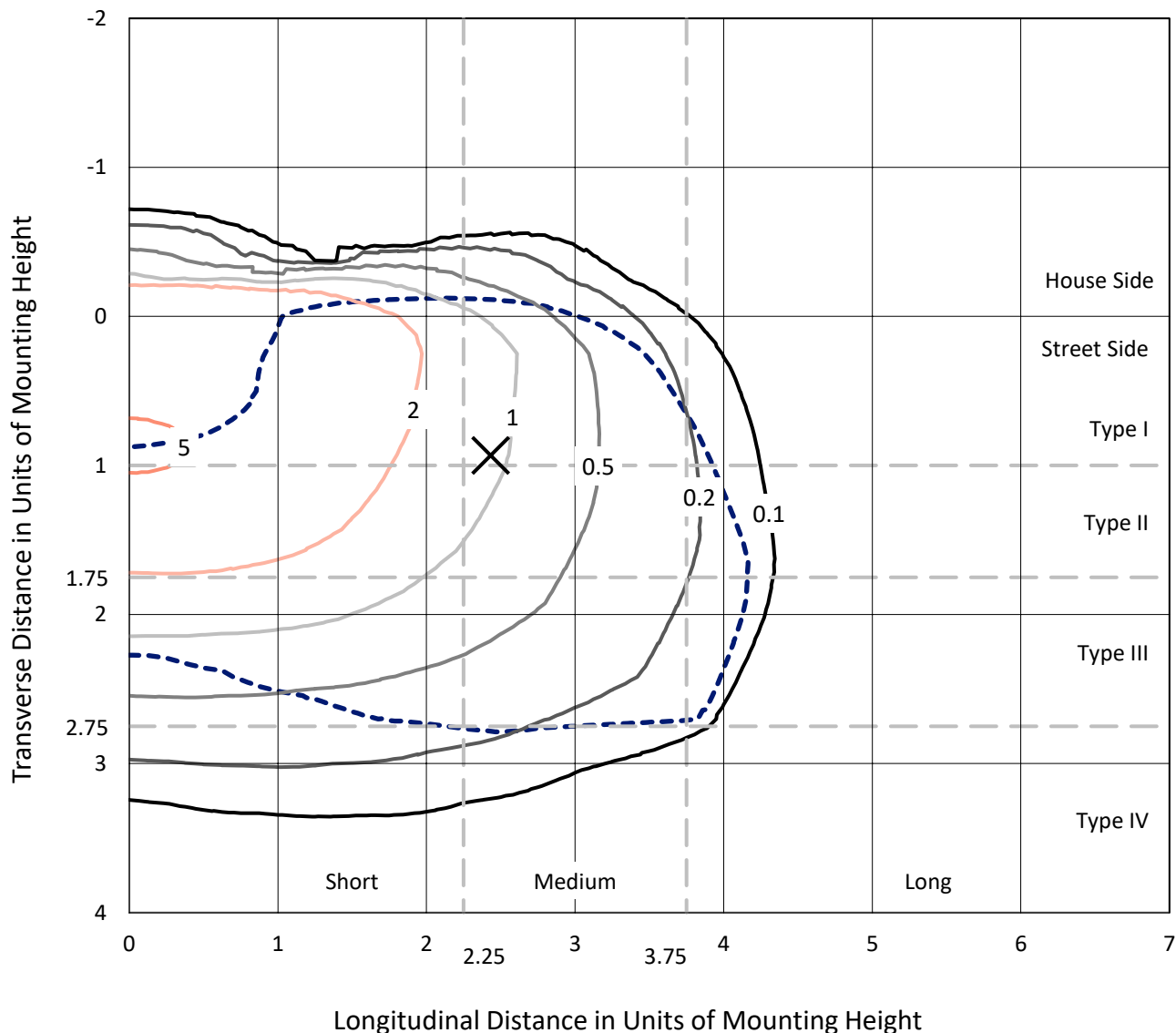
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

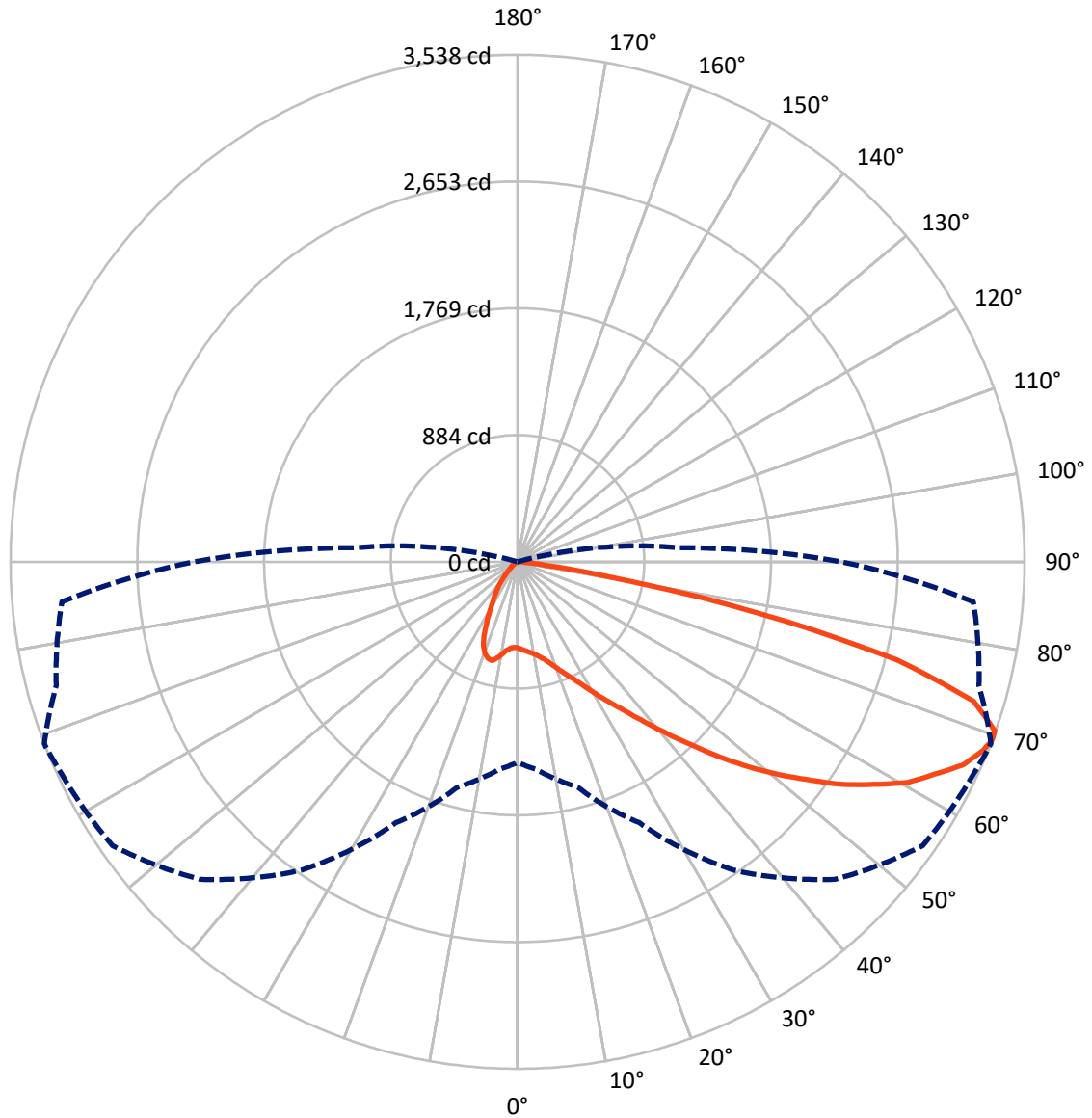
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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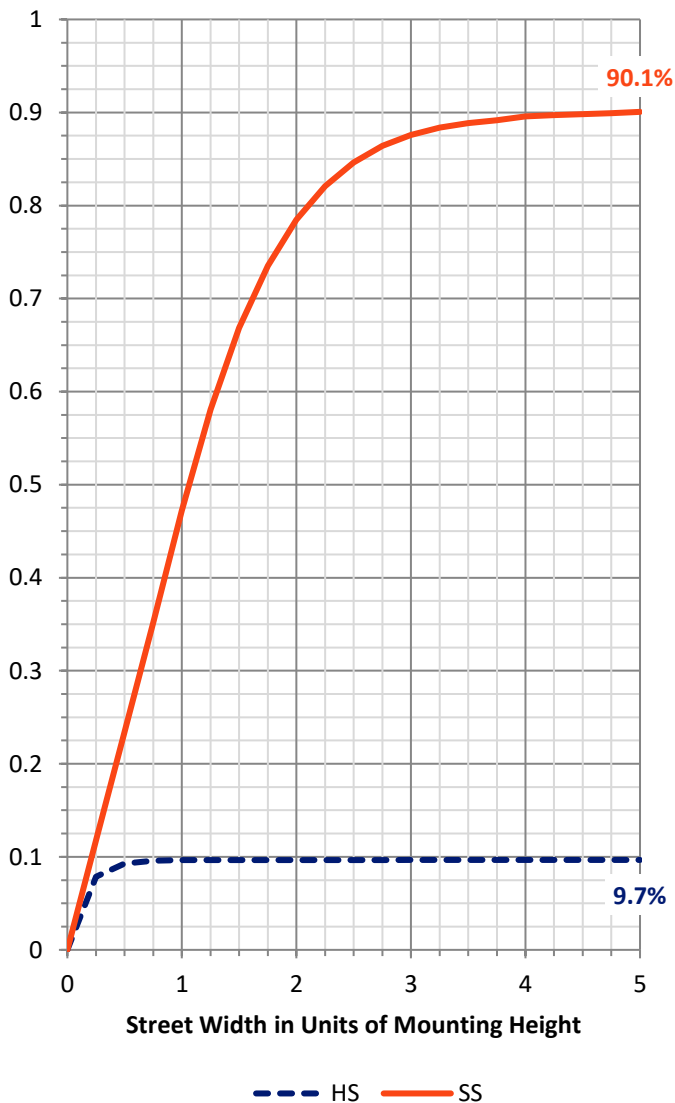
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	526.5	0.0	526.5
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	4876.5	0.0	4876.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	5403.0	0.0	5403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	1.1
10°-20°	151.6	2.8
20°-30°	252.4	4.7
30°-40°	454.5	8.4
40°-50°	824.1	15.3
50°-60°	1287.8	23.8
60°-70°	1490.0	27.6
70°-80°	833.2	15.4
80°-90°	52.0	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5403.0	100.0
0°-180°	5403.0	100.0

Coefficient of Utilization



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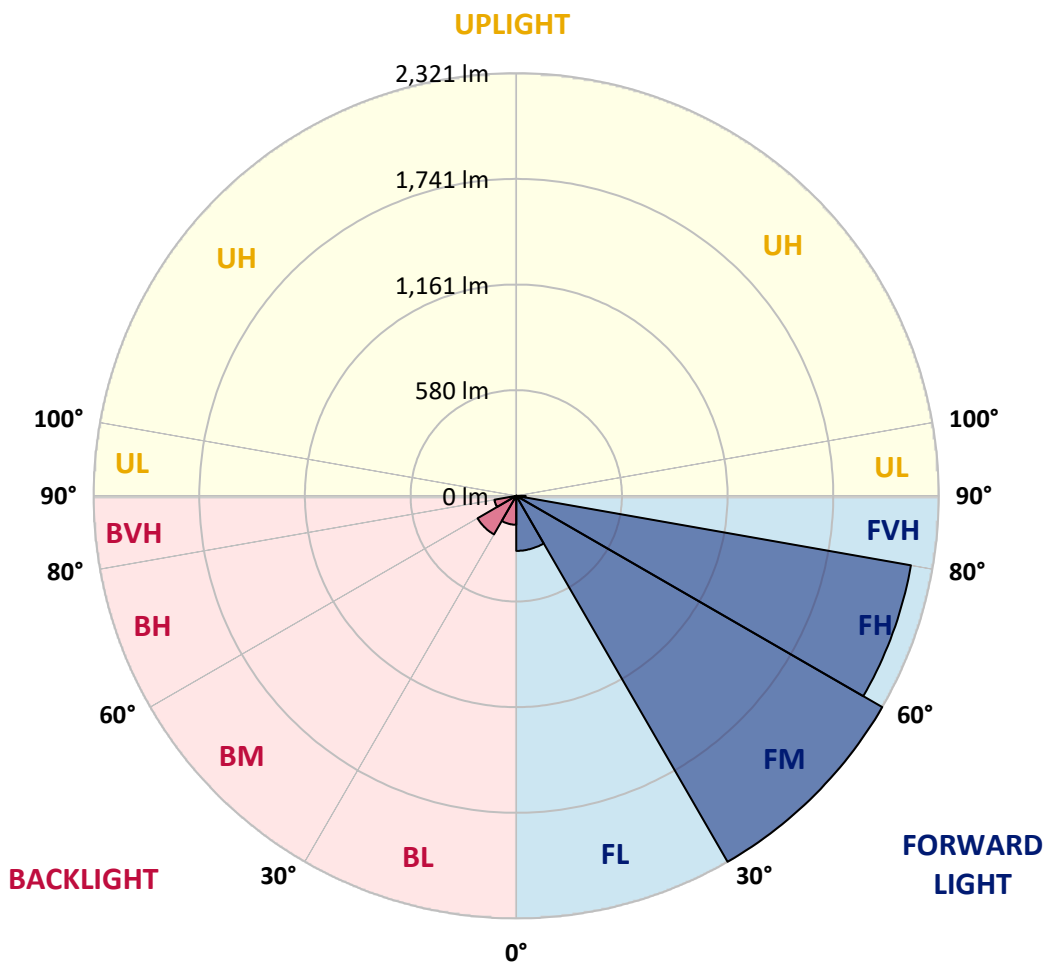
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	302.3	5.6			
FM (30°-60°)	2321.3	43.0			
FH (60°-80°)	2201.3	40.7			G2/5000
FVH (80°-90°)	51.6	1.0			G1/100
BL (0°-30°)	159.1	2.9	B1/500		
BM (30°-60°)	245.1	4.5	B1/1000		
BH (60°-80°)	121.9	2.3	B1/500		G1/500
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
2.5°	622.6	622.6	622.6	619.0	620.8	619.0	617.2	611.8	613.6	611.8	606.4
5°	601.0	602.8	608.2	611.8	620.8	624.4	626.2	626.2	624.4	620.8	617.2
7.5°	559.6	559.6	565.0	575.8	593.8	613.6	629.8	638.8	640.6	640.6	635.2
10°	548.8	548.8	556.0	563.2	581.2	604.6	629.8	651.4	655.0	658.6	656.8
12.5°	543.4	545.2	552.4	565.0	588.4	610.0	637.0	667.6	678.4	687.4	689.2
15°	550.6	550.6	557.8	570.4	597.4	628.0	662.2	696.4	707.2	719.8	728.8
17.5°	561.4	565.0	568.6	581.2	606.4	644.2	689.2	734.2	746.7	762.9	770.1
20°	579.4	579.4	583.0	593.8	620.8	665.8	728.8	782.7	793.5	804.3	813.3
22.5°	601.0	602.8	602.8	611.8	642.4	691.0	762.9	829.5	847.5	852.9	856.5
25°	665.8	662.2	649.6	644.2	667.6	719.8	804.3	885.3	905.1	910.5	903.3
27.5°	800.7	786.3	752.1	716.2	712.6	764.7	860.1	955.5	977.1	978.9	953.7
30°	969.9	971.7	915.9	838.5	786.3	813.3	921.3	1043.6	1065.2	1056.2	1016.7
32.5°	1178.6	1169.6	1128.2	1016.7	912.3	888.9	987.9	1135.4	1160.6	1146.2	1094.0
35°	1356.7	1362.1	1311.8	1212.8	1081.4	1005.9	1068.8	1238.0	1268.6	1243.4	1178.6
37.5°	1506.1	1513.3	1482.7	1401.7	1284.8	1166.0	1175.0	1358.5	1399.9	1374.7	1293.8
40°	1671.6	1677.0	1664.4	1576.3	1471.9	1356.7	1317.2	1497.1	1552.9	1518.7	1434.1
42.5°	1853.4	1873.2	1851.6	1781.4	1673.4	1574.5	1515.1	1666.2	1722.0	1700.4	1587.1
45°	2101.7	2103.5	2078.3	2008.1	1896.6	1815.6	1743.6	1846.2	1918.2	1891.2	1758.0
47.5°	2285.2	2297.8	2283.4	2234.8	2144.9	2090.9	1991.9	2044.1	2119.7	2085.5	1934.3
50°	2425.6	2459.8	2447.2	2461.6	2416.6	2393.2	2242.0	2249.2	2323.0	2294.2	2114.3
52.5°	2503.0	2546.1	2549.7	2623.5	2661.3	2718.9	2485.0	2474.2	2520.9	2495.8	2297.8
55°	2492.2	2503.0	2592.9	2727.9	2875.4	3006.8	2722.5	2677.5	2742.3	2672.1	2492.2
57.5°	2387.8	2414.8	2573.1	2740.5	3001.4	3192.1	2927.6	2877.2	2931.2	2837.6	2691.9
60°	2238.4	2278.0	2481.4	2720.7	3075.2	3303.7	3127.3	3077.0	3125.5	3012.2	2918.6
62.5°	2103.5	2121.5	2308.6	2637.9	3032.0	3298.3	3282.1	3235.3	3264.1	3145.3	3112.9
65°	1911.0	1918.2	2103.5	2488.6	2936.6	3262.3	3366.7	3384.7	3415.2	3256.9	3251.5
67.5°	1614.1	1630.2	1813.8	2227.6	2778.3	3192.1	3433.2	3469.2	3505.2	3316.3	3276.7
69°	1399.9	1452.1	1628.4	2008.1	2625.3	3132.7	3451.2	3508.8	3537.6	3332.5	3192.1
70°	1225.4	1270.4	1473.7	1839.0	2490.4	3066.2	3463.8	3503.4	3532.2	3298.3	3053.6
72.5°	615.4	673.0	951.9	1342.3	1979.3	2762.1	3399.1	3355.9	3325.3	3033.8	2470.6
75°	237.5	246.5	408.5	764.7	1238.0	2027.9	2902.4	2821.4	2731.5	2301.4	1464.7
77.5°	131.4	129.6	178.1	338.3	527.2	991.5	1963.1	1833.6	1709.4	1236.2	593.8
80°	55.8	59.4	77.4	161.9	277.1	343.7	953.7	847.5	674.8	392.3	142.2
82.5°	34.2	36.0	54.0	99.0	192.5	131.4	309.5	264.5	194.3	106.2	34.2
85°	10.8	12.6	37.8	66.6	93.6	54.0	70.2	61.2	54.0	45.0	10.8
87.5°	1.8	1.8	14.4	36.0	25.2	9.0	7.2	12.6	19.8	21.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
2.5°	604.6	601.0	597.4	595.6	595.6	592.0	590.2	588.4	588.4	586.6	586.6
5°	611.8	608.2	604.6	602.8	599.2	597.4	597.4	597.4	595.6	597.4	599.2
7.5°	629.8	624.4	622.6	620.8	620.8	615.4	606.4	583.0	559.6	552.4	545.2
10°	655.0	653.2	653.2	653.2	640.6	593.8	529.0	471.4	440.9	415.7	415.7
12.5°	691.0	691.0	689.2	683.8	619.0	505.6	404.9	318.5	268.1	239.3	242.9
15°	730.6	728.8	732.4	698.2	545.2	390.5	244.7	172.7	145.8	142.2	142.2
17.5°	771.9	775.5	771.9	660.4	448.0	241.1	145.8	131.4	127.8	127.8	127.8
20°	815.1	811.5	806.1	595.6	325.7	151.1	126.0	122.4	118.8	117.0	117.0
22.5°	858.3	854.7	818.7	512.8	203.3	124.2	118.8	111.6	106.2	104.4	104.4
25°	899.7	899.7	795.3	406.7	138.6	117.0	108.0	100.8	95.4	90.0	90.0
27.5°	951.9	955.5	757.5	284.3	117.0	108.0	97.2	86.4	79.2	75.6	75.6
30°	1011.3	1016.7	696.4	185.3	106.2	95.4	84.6	72.0	61.2	57.6	55.8
32.5°	1081.4	1086.8	626.2	122.4	95.4	82.8	70.2	54.0	43.2	41.4	39.6
35°	1171.4	1158.8	541.6	97.2	82.8	70.2	54.0	37.8	30.6	28.8	28.8
37.5°	1283.0	1256.0	444.4	84.6	70.2	55.8	39.6	25.2	19.8	19.8	18.0
40°	1410.7	1335.1	343.7	75.6	59.4	43.2	25.2	16.2	12.6	12.6	12.6
42.5°	1551.1	1401.7	244.7	66.6	48.6	30.6	16.2	9.0	7.2	7.2	7.2
45°	1713.0	1462.9	167.3	57.6	41.4	21.6	9.0	3.6	3.6	3.6	3.6
47.5°	1875.0	1502.5	111.6	50.4	30.6	12.6	5.4	1.8	1.8	1.8	1.8
50°	2038.7	1533.1	86.4	43.2	21.6	7.2	1.8	0.0	0.0	0.0	0.0
52.5°	2184.5	1554.7	70.2	36.0	14.4	5.4	1.8	0.0	0.0	0.0	0.0
55°	2310.4	1556.5	61.2	28.8	10.8	3.6	0.0	0.0	0.0	0.0	0.0
57.5°	2438.2	1542.1	52.2	21.6	7.2	1.8	0.0	0.0	0.0	0.0	0.0
60°	2515.5	1504.3	41.4	16.2	5.4	1.8	0.0	0.0	0.0	0.0	0.0
62.5°	2562.3	1441.3	32.4	10.8	3.6	1.8	0.0	0.0	0.0	0.0	0.0
65°	2535.3	1362.1	23.4	7.2	3.6	1.8	0.0	0.0	0.0	0.0	0.0
67.5°	2409.4	1239.8	16.2	5.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0
69°	2260.0	1128.2	14.4	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0
70°	2128.7	1041.8	12.6	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	1585.3	671.2	10.8	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0
75°	890.7	224.9	7.2	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	334.7	57.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	73.8	14.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)